CLAIMS

What is claimed is:

1. A method of generating an emergent model on a computer network, comprising the steps of:

generating data objects and/or function objects;

publishing references to the data objects and/or the function objects;

subscribing to the data objects and/or the functions by creating

relationships between the data objects and/or the function objects through

referencing the data objects and/or the function objects within the function

objects, thereby linking the data objects and/or the function objects, wherein

networks of linked data objects and/or function objects emerge;

sending messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change; solving the functions when the messages are received;

storing the data objects and/or the function objects in a distributed manner across multiple computing devices on a computer network; and

wherein the emergent networks of linked data objects and/or function objects are independently published to, and subscribed to, in a manner free of a globally predefined network of data objects and/or function objects, thereby generating the emergent model.

The method of Claim 1 wherein at least a part of the configuration of the networks of linked data objects and/or function objects is predefined and used to determine which data objects and/or function objects are generated on which of the computing devices in the computer network.

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- 3. The method of Claim 1 wherein a user interface is defined that displays the data objects and/or function objects on a computing device on the computer network using a client process that communicates with a server process wherein the data objects and/or function objects can be viewed on any computing device connected to the computer network.
- 4. The method of Claim 1 wherein the data objects and/or function objects are stored in logical groups.
- 5. The method of Claim 4 wherein the logical groups are defined by geography, business organization or site.
- 10 6. The method of Claim 1 wherein the references to the data objects and/or function objects are published using electronic media, print media or human conversation.
 - 7. The method of Claim 6 wherein the electronic media is indexed and searchable.
- 8. The method of Claim 1 wherein the step of generating the data objects and/or function objects provides an interface mapping for data objects and/or function objects stored in application programs, databases or computer code libraries.
 - 9. The method of Claim 1 wherein the function objects are implemented by computer code that is complied, dynamically linked and evaluated at runtime.
- The method of Claim 1 wherein the function objects are implemented by computer code that is interpreted and evaluated at runtime.

- 11. The method of Claim 1 wherein the sending or receiving of messages can be enabled or disabled based on predefined criteria.
- 12. The method of Claim 11 wherein the criteria is based upon message source, message destination or message contents.
- The method of Claim 1 wherein the relationships between the data objects and/or function objects are created without using a single coordinating computing device, or are created using multiple coordinating computing devices on the computer network.
- 14. An apparatus for generating an emergent model on a computer network, comprising:

data objects and/or function objects;

references to the data objects and/or the function objects, the references being published;

subscriptions to the data objects and/or the functions generated by creating relationships between the data objects and/or the function objects through referencing the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge;

messages sent to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

a solver unit solving the functions when the messages are received;
a storage unit storing the data objects and/or the function objects in a
distributed manner across multiple computing devices on a computer network;
and

wherein the emergent networks of linked data objects and/or function objects are independently published to, and subscribed to, in a manner free of a

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globally predefined network of data objects and/or function objects, thereby generating the emergent model.

15. An apparatus for generating an emergent model on a computer network, comprising:

a means for generating data objects and/or function objects;

a means for publishing references to the data objects and/or the function objects;

a means for subscribing to the data objects and/or the functions by creating relationships between the data objects and/or the function objects through referencing the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge;

a means for sending messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

a means for solving the functions when the messages are received;

a means for storing the data objects and/or the function objects in a distributed manner across multiple computing devices on a computer network; and

wherein the emergent networks of linked data objects and/or function objects are independently published to, and subscribed to, in a manner free of a globally predefined network of data objects and/or function objects, thereby generating the emergent model.

16. A computer program product comprising:

a computer usable medium for generating an emergent model on a computer network;

a set of computer program instructions embodied on the computer usable medium, including instructions to:

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generate data objects and/or function objects;

publish references to the data objects and/or the function objects;

subscribe to the data objects and/or the functions by creating

relationships between the data objects and/or the function objects through

referencing the data objects and/or the function objects within the function

objects, thereby linking the data objects and/or the function objects, wherein

networks of linked data objects and/or function objects emerge;

send messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

solve the functions when the messages are received;

store the data objects and/or the function objects in a distributed manner across multiple computing devices on a computer network; and

wherein the emergent networks of linked data objects and/or function objects are independently published to, and subscribed to, in a manner free of a globally predefined network of data objects and/or function objects, thereby generating the emergent model.